CLAIMS

What is claimed is:

1	1. A method comprising:
2	receiving a line of text, the line of text having a set of ordered characters;
3	flipping the characters of the line of text about a display axis;
4	identifying a set of runs of foreign characters in the line of text; and
5	flipping the characters of the runs of the set of runs of foreign characters within
6	each run of foreign characters.
<u> </u>	2. The method of claim 1 further comprising:
½ 2	receiving a block of text;
	breaking the block of text into a set of lines of text; and
3-4-4-55	performing the receiving the line of text, flipping the characters of the line,
5	identifying and flipping the characters of the runs for each line of text of the set of lines
6	of text.

- 3. The method of claim 2 further comprising:
- 2 passing the line of text to a native operating system for display.

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by a processor, cause the processor to perform a method, the method comprising:

receiving a line of text, the line of text having a set of ordered characters;

flipping the characters of the line of text about a display axis;

identifying a set of runs of foreign characters in the line of text; and

flipping the characters of the runs of the set of runs of foreign characters within each run of foreign characters.

of text.

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1	8. The machine readable medium of claim 7 further embodying instructions
2	which when executed by a processor, cause the processor to perform the method
3	further comprising:

- receiving a block of text;
- 5 breaking the block of text into a set of lines of text; and
- 6 performing the receiving the line of text, flipping the characters of the line,
- 7 identifying and flipping the characters of the runs for each line of text of the set of lines
 - 9. The machine readable medium of claim 7 further embodying instructions which when executed by a processor, cause the processor to perform the method further comprising:
 - passing the line of text to a native operating system for display.
 - 10. A processor which executes instructions causing the processor to perform the method comprising:
- receiving a line of text, the line of text having a set of ordered characters;
- 4 flipping the characters of the line of text about a display axis;
- 5 identifying a set of runs of foreign characters in the line of text; and
- 6 flipping the characters of the runs of the set of runs of foreign characters within
- 7 each run of foreign characters.

each run of foreign characters.

1	14. The server of claim 13 wherein the server is configured to send instruction	ons
2	to the client to configure the client to perform the method further comprising:	,
3	receiving a block of text;	٠.
4	breaking the block of text into a set of lines of text; and	٠.
5	performing the receiving the line of text, flipping the characters of the line,	
6	identifying and flipping the characters of the runs for each line of text of the set of li	ines
7	of text.	

- 15. The server of claim 14 wherein the server is configured to send instructions to the client to configure the client to perform the method further comprising:

 passing the line of text to a native operating system for display.
 - 16. The server of claim 15 wherein the client is a remote mobile device.
 - 17. The server of claim 15 wherein the client is a wireless device.

1	18. A server configured to download information to a client, the information
2	including a set of instructions, the instructions for execution by a processor of the client,
3	the set of instructions causing the processor to perform a method, the method
4	comprising:
5	receiving a line of text, the line of text having a set of ordered characters;
6	flipping the characters of the line of text about a display axis;
7	identifying a set of runs of foreign characters in the line of text; and
8	flipping the characters of the runs of the set of runs of foreign characters within
9	each run of foreign characters.
1	19. The server of claim 1/8 wherein the set of instructions cause the processor to
2	perform the method further comprising:
3	receiving a block of text;
4	breaking the block of text into a set of lines of text; and

20. The server of claim 19 wherein the set of instructions cause the processor to 1 2 perform the method further comprising:

performing the receiving the line of text, flipping the characters of the line,

3 passing the line of text to a native operating system for display.

1	26. The method of claim 25 further comprising:
2	receiving a block of text having a set of ordered characters and a location; and
3	breaking the block of text into a set of lines of text, each line having a set of
4	ordered characters and a location.
1	27. The method of claim 26 wherein:
2	the text is received from an application with no capability of handling bi-
3	directional text.
1 2 2 3	28. The method of claim 27 wherein:
□ 2 □	the foreign text is defined as text which should be displayed in a left-to-right
	fashion.
	29. The method of claim 27 wherein:
☐ 2 = 2	the foreign text is defined as text which should be displayed in a right-to-left
3	fashion.

rendering each run of foreign characters in a second orientation.

characters.

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- 40. The server of claim 38 wherein the server is configured to send instructions
 to the client to configure the client to perform the method further comprising:
 rendering each run of the set of runs, except for the runs of foreign characters, in
 a first orientation; and
 rendering each run of foreign characters in a second orientation.
 - 41. The server of claim 40 wherein the server is configured to send instructions to the client to configure the client to perform the method further comprising:

 receiving a block of text having a set of ordered characters and a location; and breaking the block of text into a set of lines of text, each line having a set of ordered characters and a location.
 - 42. The server of claim 41 wherein the client is a remote mobile device.
 - 43. The server of claim 41 wherein the client is a wireless device.

- 47. The server of claim 46 wherein the set of instructions cause the processor to perform the method further comprising:
- receiving a block of text having a set of ordered characters and a location; and
 breaking the block of text into a set of lines of text, each line having a set of
 ordered characters and a location.
 - 48. The server of claim 47 wherein the client is a remote mobile device.
 - 49. The server of claim 47 wherein the client is a wireless device.
 - 50. A method comprising:
 - receiving a line of text, the line of text having a set of ordered characters;

 flipping the characters of the line of text within the line of text about a center vertical axis of a display;
 - identifying a set of runs of foreign characters in the line of text; and flipping the characters within each run of foreign characters about a center vertical axis of each run of foreign characters.

- 1 51. The method of claim 50 further comprising:
- 2 receiving a block of text;
- 3 breaking the block of text into a set of lines of text; and
- 4 performing the receiving the line of text, flipping the characters of the line,
- 5 identifying and flipping the characters of the runs for each line of text of the set of lines
- 6 of text.